

USEPA RECORDS CENTER REGION 5



466413

Monthly Oversight Report 65  
44728 AES [*46526 RAC*]  
ACS NPL Site  
Griffith, Indiana  
May 5, 2006 – June 2, 2006



# BLACK & VEATCH

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Black & Veatch Special Projects Corp.

USEPA/AES  
American Chemical Service, Inc. RAO (0057-ROBE-05J7)

BVSPC Project 44728  
BVSPC File C.3  
June 9, 2006

Mr. Kevin Adler  
U.S. Environmental Protection Agency  
77 W. Jackson Boulevard (SR-6J)  
Chicago, Illinois 60604-3590

Subject: Monthly Oversight Summary Report  
No. 65 for May 2006

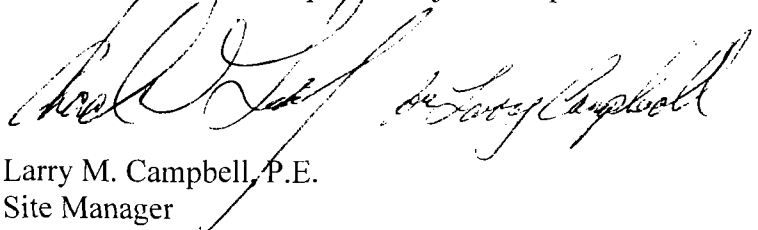
Dear Mr. Adler:

Enclosed is the Monthly Oversight Summary Report No. 65 for May 2006 for the American Chemical Service, Inc. Superfund Site in Griffith, Indiana.

If you have any questions, please call (312-683-7856) or email ([campbellm@bv.com](mailto:campbellm@bv.com)).

Sincerely,

BLACK & VEATCH Special Projects Corp.



Larry M. Campbell, P.E.  
Site Manager

Enclosure

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**Monthly Oversight Summary Report No. 65**  
**ACS Superfund Site**  
**TO 057, 44728.238 (AES) [WA57, 46526.238 (RAC)]**

**Reporting Period:** Month of May (May 6 through June 2, 2006)

**BVSPC O/S Dates:** May 11 and June 2, 2006 (Mr. Gailey)

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	3	Respondent's General Contractor
U.S. Environmental Protection Agency	1	Federal Regulatory Agency
Indiana Department of Environmental Management	1	State Regulatory Agency
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Austgen	1	General Contractor
PSA Environmental	2	Drilling Contractor
Ryan	1	General Contractor

## **Construction Activities**

### **Major Activities:**

- Montgomery Watson Harza continued operating the groundwater treatment plant, the in-situ soil vapor extraction systems, and the air sparge systems.
- Montgomery Watson Harza and PSA Environmental conducted the post-application sampling following the fourth full-scale In-Situ Chemical Oxidation Treatment injections.
- Montgomery Watson Harza replaced the scrubber packing in Thermal Oxidizer 2.
- Montgomery Watson Harza held a site operations and maintenance status meeting on June 2.

### **Activities Performed:**

- Observed MWH continue to operate the groundwater treatment plant (GWTP) at a flow-demand rate of 22 to 40 gpm, treating 831,047 gallons during 629 of the 672 hours (94%) in the May period (April 28—May 26). MWH reported that groundwater was pumped to the plant from all trench and well sources.
- MWH reported that the GWTP sand filter malfunctioned during the first week of May. MWH also reported that pumps P-104 and P-105 underwent routine maintenance. Both pumps were cleaned using an acid wash.

- MWH reported that the new air compressor to replace the existing main GWTP air compressor was delivered to the site on June 1. The compressor is anticipated to be installed during the week of June 12.
- MWH reported that it measured water levels in all monitoring locations on May 22 to 24 as part of the monthly monitoring plan.
- Observed MWH continue to operate the Onsite Containment Area (ONCA) Still Bottoms Pond Area (SBPA) and Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) systems, processing vapors through thermal oxidizer units 1 and 2 (thermox 1 and 2).
- MWH reported that it conducted the monthly compliance sampling of thermox 1 and 2 on May 24.
- MWH reported that thermox 1 operated for 328 of the 672 hours (49%) in the May period, processing 1,000 cfm of vapors from the ONCA SBPA ISVE system, collecting vapors from the same 30 (of the total 46) ISVE wells that have been used during previous reporting periods.
- MWH reported that thermox 1 was shut down for approximately 50% of the month to accommodate maintenance activities. In order to maintain a stable chamber temperature, the burner valve was replaced with one that had a larger orifice. A hole on the scrubber ductwork was also repaired. On May 29, the unit shut down for unknown reasons. On May 31, the main gas regulator was replaced. The unit was restarted on June 2.
- MWH reported that thermox 2 operated for 620 of the 672 hours (92%) in the May period, processing 2,000 cfm of vapors collected from all 42 OFCA ISVE wells and aeration tank T-102.
- Observed MWH replace the scrubber packing in thermox 2 on May 11.
- MWH reported that it pumped 25 gallons of free product from ISVE well SVE-53 in the SBPA on both May 3 and May 15, for a total of 50 gallons. Product was collected in a drum at the surface and transported to the GWTP and transferred to oil holding tank T-6.
- MWH reported that in early May, air was being injected into the SBPA through Group 3 of five wells (SVE-44, -59, -77, -80, and -84), each flowing at about 20 cfm. MWH reported that air injection was switched to Group 1 wells (SVE-50, -54, -73, -79, and -81) on May 24. MWH reported that air will be injected using this Group 1 set of wells through late June.
- MWH reported that PSA Environmental mobilized to the site on May 9 to conduct post-application sampling following the fourth round of chemical-oxidation injections. Sampling was completed on May 12, and PSA Environmental demobilized from the site.
- Observed MWH conduct the post chemical-oxidation injections application sampling, collecting 12 soil samples and 12 water samples. Seven of the water samples were collected through the drill pipe of the direct push rig. The other five samples were collected from temporary monitoring wells
- Completed monthly oversight report (with field notes and photographs) for the April reporting period. Submitted Monthly Oversight Summary Report No. 64 to EPA on May 9.
- Site Manager provided periodic reports of field activities to the EPA TOPO via telephone and E-mail.

- Participated in 1 operation and maintenance (O&M) meeting at MWH's Chicago office (June 2).

**Topics of Concern:** None

**Concern Resolution:** None

**Upcoming Activities:**

- MWH to continue operating the GWTP and the OFCA and ONCA SBPA ISVE and air sparge systems.
- MWH to continue operating Group 3 air injection wells in the SBPA.
- MWH to monitor odors in the ACS break room.
- MWH to continue pumping product from selected ONCA SBPA dual phase extraction wells.
- MWH will remove the existing air compressor and install a replacement air compressor during the week of June 12.
- MWH to conduct Lower Aquifer Phase 3 Investigation, including installation of additional long-term groundwater monitoring network wells and installation of pumps in existing wells in the area of MW53.
- MWH will continue construction coordination meetings at the site when field activities warrant such meetings.
- MWH will continue monthly O&M meetings to report on operation of active treatment systems.

Signature: Chad Gailey

Date: June 9, 2006

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**SITE STATUS MEETING MINUTES  
FOR JUNE 2, 2006 MEETING  
AMERICAN CHEMICAL SERVICE, NPL SITE  
GRIFFITH, INDIANA**

**MEETING DATE:** Friday, June 2, 2006

**MEETING TIME:** 10:00 a.m.

**MEETING LOCATION:** MWH Chicago Office

**ATTENDEES:** Chad Gailey – Black & Veatch  
Larry Campbell – Black & Veatch (via phone)  
Kevin Adler – U.S. EPA  
Peter Vagt – MWH  
Chris Daly – MWH  
Lee Orosz – MWH (via phone)  
David Powers – MWH  
Justin Finger – MWH

**TOPICS:**

**SITE STATUS**

General Site Health and Safety

There have been no health and safety incidents since the last meeting held on May 5<sup>th</sup>. As summer approaches, rising temperatures and humidity may present health and safety risks. Also, condensation from piping in the Groundwater Treatment Plant (GWTP) has created potential slip hazards on the plant floor. Biological hazards such as bees, mosquitoes, and poison ivy will become more prevalent as the weather gets warmer.

On June 1, 2006, the new compressor for the plant was offloaded using a forklift. No health and safety incidents occurred while this work was performed.

Groundwater Treatment Plant (GWTP) Status

The GWTP operated 94 percent of the time from April 28<sup>th</sup> to May 26<sup>th</sup> (629 out of 672 hours). During the first week of May, the sand filter malfunctioned. The problem was corrected and the plant was fully operational again within a few days of the incident. Also, during this past month, pumps P-104 and P-105 underwent routine maintenance. Both pumps were cleaned using an acid wash.

A new air compressor to replace the existing main GWTP air compressor was delivered to the site on June 1, 2006. The compressor is anticipated to be installed during the week of June 12, 2006.

#### Off-Site Area/SBPA ISVE Systems

The Off-Site Area In-situ Soil Vapor Extraction (ISVE) System was operational for 92 percent of the time from April 28 to May 26, 2006 (620 out of 672 hours). All 42 ISVE wells and 3 air sparge wells are active. Downtime occurred because Thermal Oxidizer 2 (ThermOx 2) was shut down to replace the scrubber packing.

The Still Bottoms Pond Area (SBPA) ISVE system was operational for 49 percent of the time from April 28 to May 26, 2006 (328 out of 672 hours). Air Injection Well Group 3 (SVE-44, SVE-59, SVE-77, SVE-80, and SVE-84) and associated ISVE wells were active until May 24<sup>th</sup>. On May 24<sup>th</sup>, operation was switched to Well Group 1 (SVE-50, SVE-54, SVE-73, SVE-79, and SVE-81).

The SBPA ISVE system was down for approximately 50% of the month to accommodate maintenance activities on Thermal Oxidizer 1 (ThermOx 1). In order to maintain a stable chamber temperature, the burner valve was replaced with one that had a larger orifice. A hole on the scrubber ductwork was also repaired. On May 29, the unit shut down for unknown reasons. On May 31, the main gas regulator was replaced. The unit was restarted on June 2.

#### Interaction with ACS Facility and Community

During a conversation with Tom Froman of ACS, he stated that no problems were noted regarding the active treatment systems located on the ACS facility.

#### Current Issues

Post-application sampling following the fourth round of chemical-oxidation injections was conducted from May 9-12, 2006. MWH subcontracted PSA Environmental to perform drilling activities. MWH collected 12 soil samples and 12 water samples. Seven of the water samples were collected through the drill pipe of the direct push rig. The other five samples were collected from temporary monitoring wells. The results from this event will be summarized in a forthcoming report.

The Phase 2 Lower Aquifer Investigation Report has been completed and was delivered to the Agencies during the meeting. The report discusses the results of the investigation and also proposes a third phase of work. This third phase includes installing a remediation system and two monitoring wells. A summary of the Lower Aquifer Investigation and the report contents is attached to these meeting minutes.

#### LOOK AHEAD

##### Field Events

- ISVE System Monitoring – June 22, 2006 (tentative)
- Field Activities for Lower Aquifer Phase 3 – TBD

##### Reports

- Lower Aquifer Phase 2 Investigation Report – June 2006
- Active Treatment Systems Quarterly Report, 1<sup>st</sup> Quarter 2006 – June 2006
- Chemical Oxidation Fourth Full-Scale Application Report – June 2006
- March 2006 Groundwater Monitoring Report – June 2006

#### Health & Safety Look Ahead

- Special precautions should be taken to avoid slip hazards associated with condensation from pipes in the GWTP.
- Special precautions should be taken to avoid heat stress associated with increasing summer temperatures.
- Special precautions should be taken to avoid biological hazards such as bees, mosquitoes, and poison ivy.
- Proper PPE should be worn during monthly ISVE system monitoring.

#### Future Meetings

Monthly Site Status Meeting – Thursday, July 13, 2006, 12 p.m. at the ACS site. If the meeting cannot take place on this date, it will be moved to Friday, July 14, 2006 at 10 a.m. in the MWH Chicago office.

JEF/CAD/PJV

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# DRAFT

## LOWER AQUIFER INVESTIGATION SUMMARY

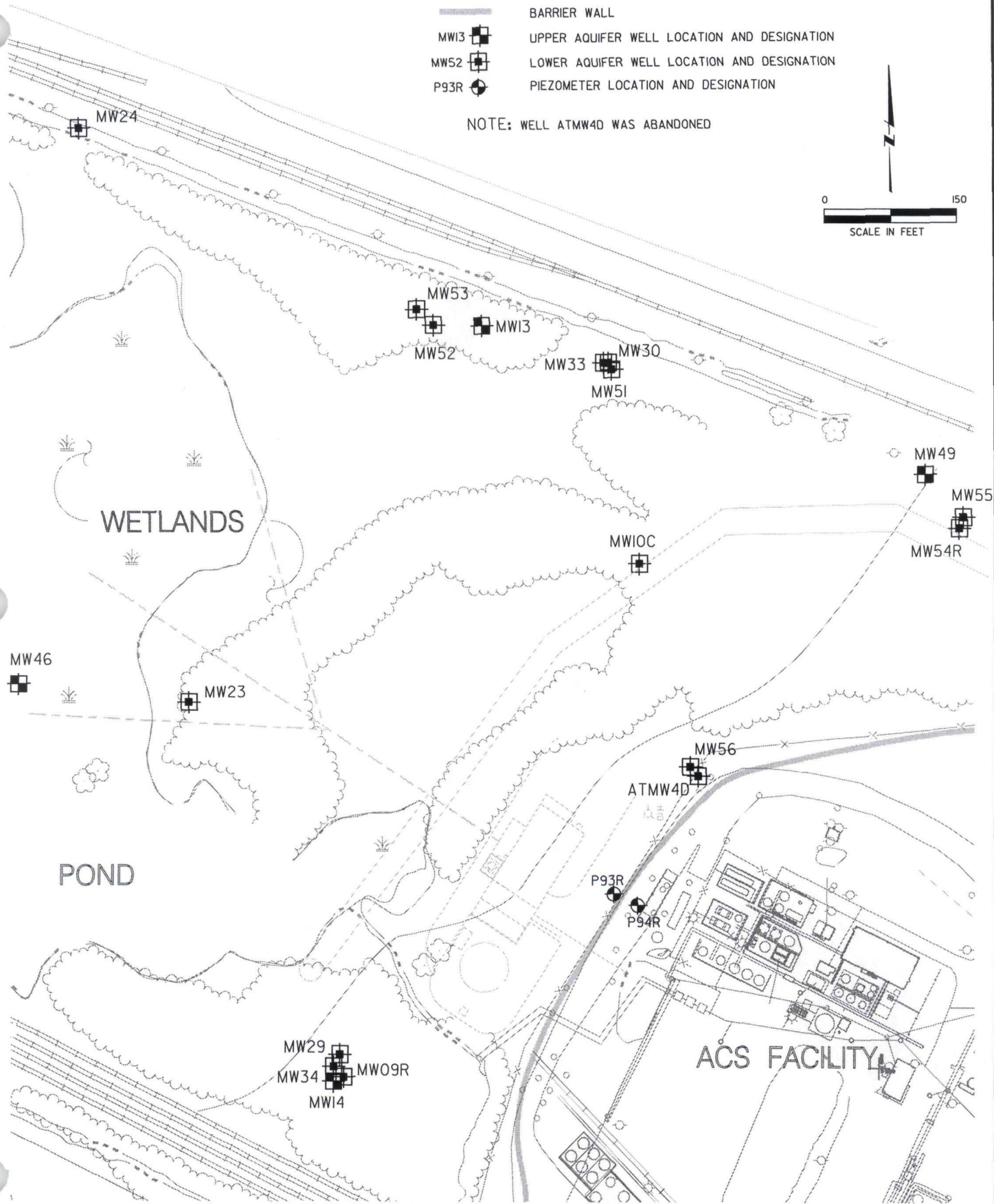
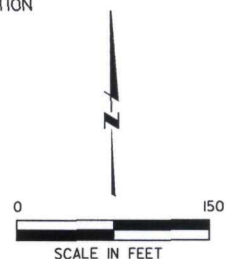
JUNE 2, 2006

- We have just finished Phase 2 of the Lower Aquifer Investigation at the ACS Site. The Phase 2 Report proposes a third Phase of work to install a remediation system and two monitoring wells.
- **Figure 1** shows the monitoring well locations on the north side of the ACS Site.
- Benzene is the signature CoC for the Site. There have been several localized detections of benzene in the lower aquifer throughout the past 10 years.
- These impacts (at MW9, MW10, and ATMW4D) occurred in the upper part of the lower aquifer and resulted from incomplete surface seals at the well locations.
- Localized pumping systems have dealt effectively with these as localized impacts.
- The MW53 benzene impact is at the bottom of the lower aquifer. The results (**Figure 2**) are systematic and suggest an ongoing source, probably beneath the ACS Site.
- Objective 1 of Phase 2 was to define the extent of benzene in the lower aquifer in the vicinity of MW53. **Figure 6** shows the benzene impact extending approximately 200 feet east-to-west at the bottom of the lower aquifer.
- Objective 2 was to determine the hydraulic properties of the lower aquifer in the impacted zone so that we could design the appropriate remedial system: Phase 2 included a three-day pumping test (Appendix G) and groundwater modeling (Appendix H).
- While P&T is not often our first choice for remediating a groundwater impact, it makes sense here.
- The GWTP will operate for the long-term and it has excess capacity, particularly for groundwater with ppb concentrations.
- Phase 3 includes installing a P&T Remedial System and two sentinel monitoring wells further downgradient (north) of the ACS Site.
- We propose to install pumps in 4 lower aquifer wells (LA12, LA13, LA14, and MW 53) with manifold system and subsurface piping system to bring extracted water back to the GWTP.
- Spacing between the wells is approximately 50 feet. The benzene impact would be capture by pumping wells two-at-a-time, at about 5 gpm each. See attached **Figure H-8**.
- **Figure 9** shows the proposed locations two new monitoring wells, further downgradient from MW53. These will be added to the long-term groundwater monitoring network.

# LEGEND

-  BARRIER WALL
-  UPPER AQUIFER WELL LOCATION AND DESIGNATION
-  LOWER AQUIFER WELL LOCATION AND DESIGNATION
-  PIEZOMETER LOCATION AND DESIGNATION

NOTE: WELL ATMW4D WAS ABANDONED



AMERICAN CHEMICAL SERVICE, INC.  
NPL SITE  
GRIFFITH, INDIANA

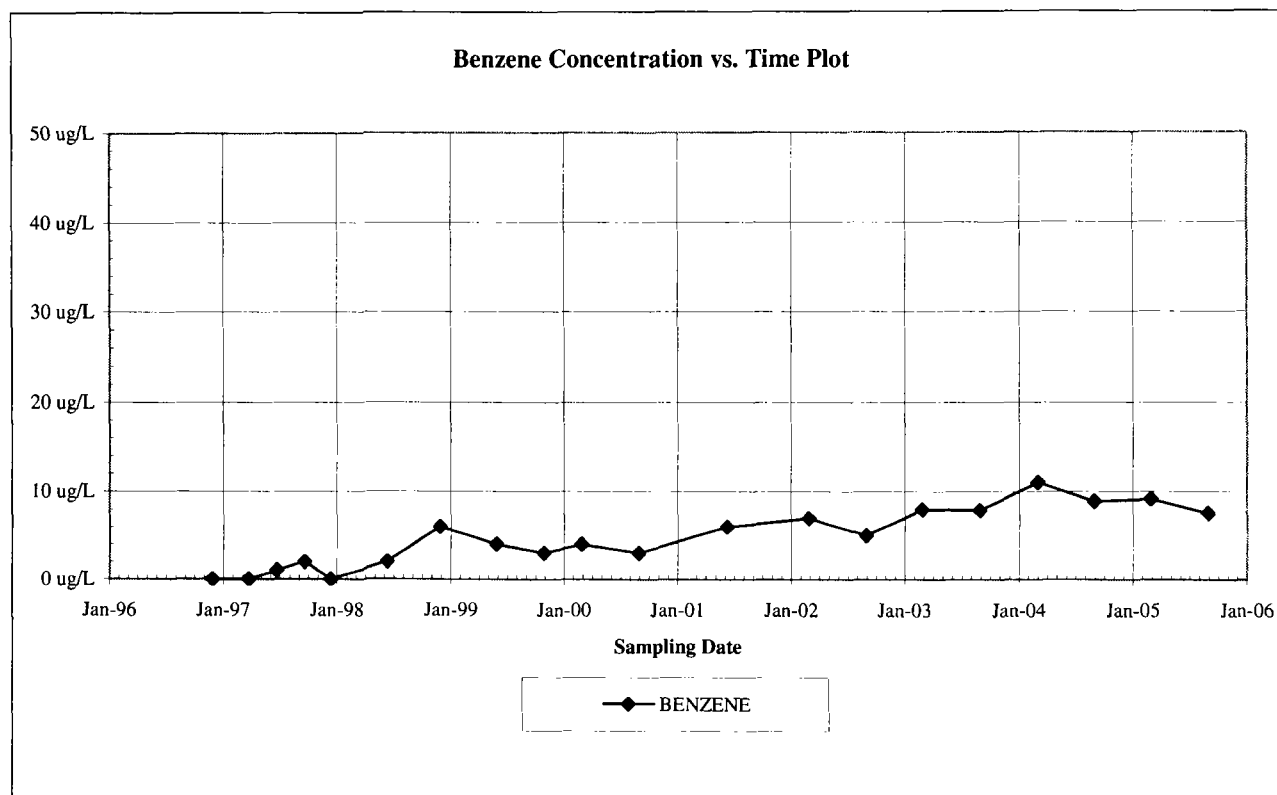
LOWER AQUIFER MONITORING  
WELLS AND SURROUNDING  
FEATURES MAP

FIGURE

1

**Figure 2**  
**Concentration vs. Time Plot for**  
**Lower Aquifer Monitoring Well MW53**  
**American Chemical Service NPL Site, Griffith Indiana**

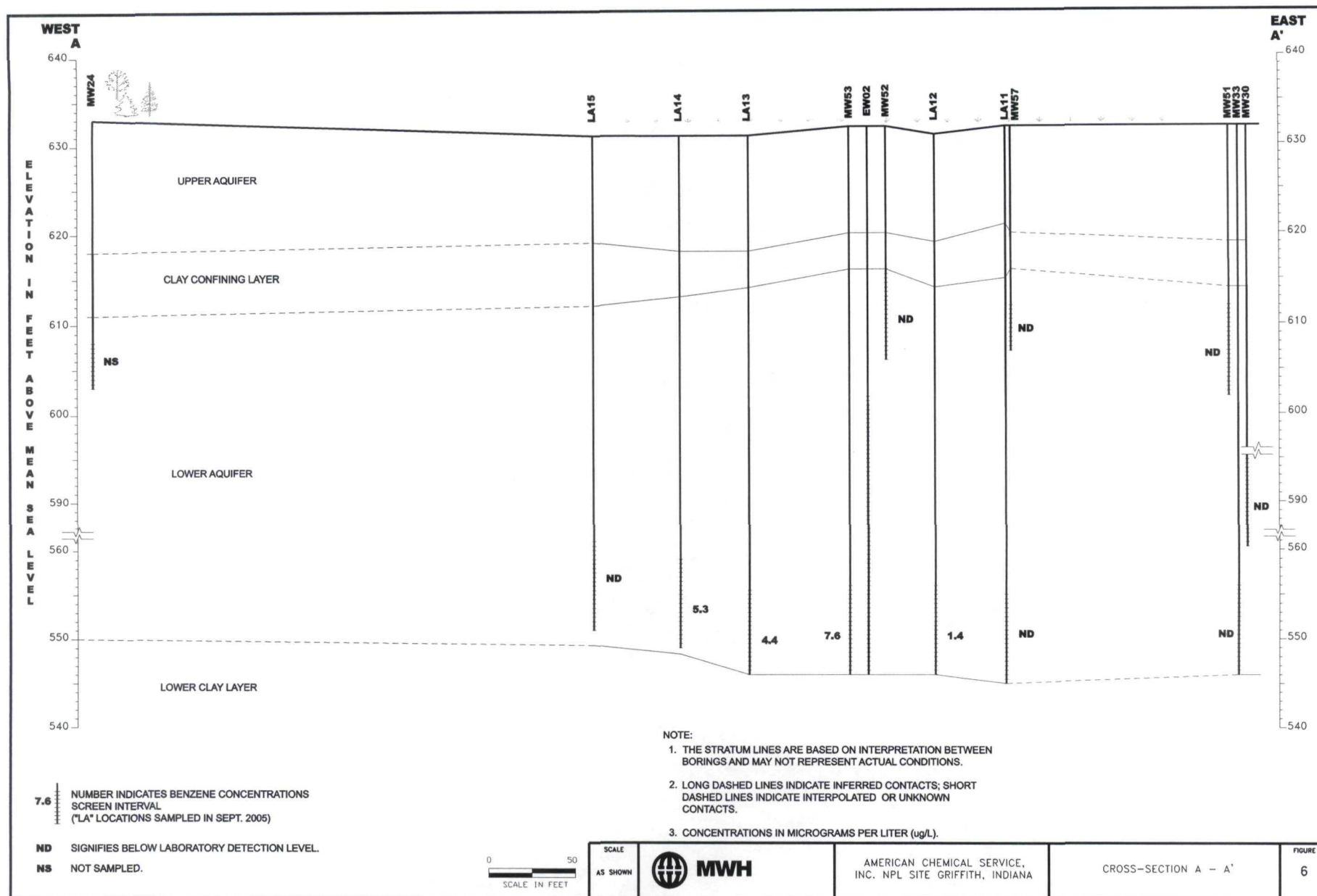
DATE	BENZENE
BASELINE	10
August-89	
May-90	
January-95	
December-96	BDL
March-97	BDL
June-97	1 ug/L
September-97	2 ug/L
December-97	BDL
June-98	2 ug/L
December-98	6 ug/L
June-99	4 ug/L
November-99	3 ug/L
March-00	4 ug/L
September-00	3 ug/L
June-01	6 ug/L
March-02	7 ug/L
September-02	5 ug/L
March-03	8 ug/L
September-03	7.9 ug/L
March-04	11 ug/L
September-04	8.9 ug/L
March-05	9.2 ug/L
September-05	7.6 ug/L



**Notes:**

ug/l - micrograms per liter

BDL = Below the Detection Limit







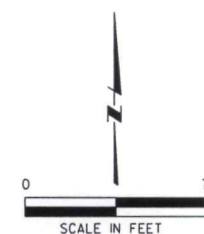
**Figure H-8. Modeled 20-year capture zone created by two wells each pumping at 5 gpm (MW53 and LA-14).**





# LEGEND

- MW53 LOWER AQUIFER WELL LOCATION AND DESIGNATION
- LA-II TEMPORARY WELL SAMPLING POINT LOCATION AND DESIGNATION
- MW58 PROPOSED LOWER AQUIFER SENTINEL WELL LOCATION AND DESIGNATION



AMERICAN CHEMICAL SERVICE, INC.  
NPL SITE  
GRIFFITH, INDIANA

PROPOSED LOWER AQUIFER  
SENTINEL WELL LOCATIONS

FIGURE

9

(136)

1134 Photo 86-14 looking S at  
second GAC tank being moved  
into position.

1200 Break for Lunch

1240 Lunch over

1244 Photo 86-15 looking S at  
new GAC tanks in place

1245 Photo 86-16 looking SW at  
Lee measuring for new hoses  
to connect new GAC tanks

1300 Left site for day

*Wm Campbell*

(137)

*Charles R. Saly*

05/05/06

9:50 Arrive @ mail OFFICE Deana from  
Chicago @ 175 W Jackson Street  
for the monthly Construction Meeting  
Weather, Temp in 50s mostly clear

10:05 meeting started; Present are the  
Following People:

Chris Daly	mail
Jason Finger	mail
Dave Poulos	mail
Pete Vagt	mail
Todd Lewis	mail
Lee Crose	mail By Phone
Prasanna	Idem By Phone

### Site Status

Health & SAFETY; Lee Crose Speaking  
April 11 - Carbon Change out w/ 1  
Vacuum Truck; Harry Campbell was  
Present from B&V

12 - Remove the 2 - 10,000 gal  
Carbon Tank (GAC) w/ Crown  
AND INSTALLED SAME DAY  
without a hitch w/ 2 -  
6,000 gal Tanks.

19 - Combine Space Permit to  
Entry, Extraction well

*Charles R. Saly*

(138)

## Health & Safety (Continued)

April 11 - The Confine Space Entry was a success.

11<sup>th</sup> must conduct an internal Audit. The only concern found was the missing Eye wash Dust Caps.

25 must conduct their Annual Open house for the Fire Dept.

(City of Griffith) 33 fire fighters were present, 2 Fire Trucks, 2 Rescue unit, and 2 additional Support Vehicles.

## GWTP Status

Dave Power Speaking.

April 12 Lost Power on May 1 and May 2 Due to Severe Thunderstorms. Regain Power April 2.

April 11-12 GWTP was put into continuous loop to adjust the pH During New Carbon Tank installation.

April 15 Return to Discharging Liquids (Treated).

April 16 Plant Shut Down

Chuck Saly

(139)

## GWTP Status (Continued)

April 16, Plant Shut Down Due to Sand filter becoming plugged Settling off the High water Alarm in the Bio Tank.

April 18 GWTP Back online, Lee was able to detect this shortly putting the GWTP back online Monday.

Month April Treatment Plant Operated 88% of Time Treating 670K gals.

April 18-20 The GWTP was put into continuous loop to allow the wells to Equilibrate for monthly Groundwater elevations.

During this time Preventive maintenance was performed on Chem C-1 and II Thermal Oxidizer II had 20 holes Patch in its outer shell, Due to Peaks of high VOC's, Both Oxidizer Unit were put Back on line April 21<sup>st</sup>.

Thermal Oxidizer I operated 474 out of 672 hours (71%). II Operated 561 out of 870 (83%).

Chuck Saly



(170)

Chad Saly *astab6*

SVE April 29 ✓ Group 3 was Put  
online which is 44, 59, 77  
80 and 84.

8 gals of Product was Removed.  
ACS / Tom of ACS w/ Murt

- observed No odors or  
excessive Noise, this is

an old issue that has and  
is currently being monitored  
IN the on-site AREA with the  
Extraction wells and Blowers.

### Community Relations

Howard Anderson's Family, was  
happy with the solution to

Blower Noise, (Pete Vogt) spoke  
w/ Mr Howard Anderson's wife.

Pete Vogt informed us Mr. Anderson  
Past history.

### Up Coming Events

Chem On Sampling May 9-12

all work is to be performed in the  
night-of-day, activities have been  
coordinated along w/ ACS.

12 Soil Sample locations

2 Grab Samples

Chad Saly

(171)

Chad Saly *astab6*

### Up Coming Events (Continued)

5 Sample from Existing Chem On  
wells.

NPSCO Power Company will be  
on site to Replace a Local  
Transformer.

### REPORTS

System Monitoring May 24

Lower Aquifer END May

Q Report END MAY

Chemical Oxidation JUNE

### Post HHS Concerns / Look Ahead

- Sampling Safety, PPE

- Traffic

- De energize Plant During  
Transformer Exchange.

- NEXT Meeting June 2, 2006  
@ MWH's Office.

05/05/06  
Chad Saly

(142)

Chad Saly 05/11/06

9:20

ARRIVED ON SITE @ ACS, CWTIP.

Weather, Temp 57°F, RAINING.

Present Today are the following

Justin Finger MWH Chem Ox

Tim Carroll MWH Chem Ox

Bobby Jones PSA Driller

Robert Tieman PSA Driller

Lee OROSE MWH Operator

Tim Kirkland Astoria General Contractor

9:25

Observed Lee OROSE + Tim Kirkland

Changemy Out the Packing in  
Chem Ox 2.

9:27

Picture 1 Role 87

Facing West From inside the Trench  
Plant of Lee + Tim Removing  
the old Chem Ox Packing.

- NYPSCO is scheduled to be  
ON SITE / out front to Change the  
Power Transformer.

9:45

Picture 2 Role 87

Facing South @ 1002 Recker Rd  
of Justin Finger Logging the  
Boring.

9:46

Picture 3 Role 87

Facing South @ 1002 Recker Rd

Chad Saly

(143)

Chad Saly 05/11/06

of Tim Carroll Scanning the Boring  
for VOCs.

This boring D405 is a Chemical AND  
water Sample location. Soil Sample  
will be Take between 19+24 Feet  
below Ground Surface.

10:00 Picture 4 Role 87

Facing North @ 1002 Recker Rd  
@ Boring D405

Depth of 19' ~~First Location of~~

10:15 Picture 5 Role 87

Facing NW @ 1002 Recker  
Rd of PSA Bobby Jones  
Decontaminating the Sampling  
Barrel.

10:16 Picture 6 Role 87

Facing North @ D405  
1002 Recker Rd of  
Tim Carroll Pulling the  
VOC Sample 19 to 20'.

10:58 Picture 7 Role 87

Facing Southwest @ D405, 1002 Recker  
Rd of Tim Carroll Collecting a VOC  
Sample.

Chad Saly

(144)

Chad Lee 05/14/06

- 10:55 PKASARb from EDM arrival.  
@ K002 Rendez Rel to observe  
Sampling in progress @ DL05. —
- 11:20 MWT & PSA ARE Finished @ DL05,  
currently Decontaminating Equipment and  
tools. —
- 11:30 Started Push Probe @ DL04. —
- 11:35 Picture 88 Role 87  
Facing Southeast @ DL04,  
DOZ Rebar Rd of Pist  
Advancing Push Probe & MWT Lay  
the Soil. —
- 11:42 Picture 89 Role 87  
Facing Southwest @ DL04 of  
Justin beginning the Impacted Soil  
@ 19.5' below land surface. —
- 12:15 Lunch. —
- 13:25 Setup on DL09A, Last Soil Prep
- 13:35 Picture 910 Role 87  
Facing South @ DL09A of  
MWT logging the Rebar. —
- 14:30 Justin & Tim are Sampling Ground-  
water @ DL04. —

Chad Lee

Chad Lee 05/14/06

- Lee OROSE Seal the Planet is  
operational. Except for the  
Air Sparging. —
- ① Chem Ox 1 partially Running  
② Chem Ox 2 Down for Re-  
packing. —
- The Part for Chem Ox 1 Arr today,  
but it was the wrong part. A New  
Part will be sent out and Arrived  
Monday 15 of May. —
- ③ No Air Sparging is taking Place  
only Air Extraction. —
- 15:30 Picture 110 Role 87  
Facing East @ DL04 of  
Justin Fingers Sipping Vial  
Vials. —
- 15:35 Leaving Site.  
MWT GB Clean up. —
- Tomorrow MWT will Sample  
the 4 Temporary wells. —

Chad Lee

(146)

Chad Saly *collected*

9:55

ARRIVED @ MWA's OFFICE LOCATED @ 175 JACKSON ST SEAT 1900 FOR THE MONTHLY CONSTRUCTION/SITE STATUS MEETING.

Present for the meet are the following:

Pete Vayt MWA in Person  
Chris Daly MWA in Person  
Justin FINGER MWA in Person  
DAVE POWERS MWA in Person  
Lee CROSE MWA Vice Plant  
Kevin Adler EPA in Person

Larry Campbell BVSPC Vice Plant

MWA handed out the following 3 items:

- Site Status Meeting Agenda (June 2, 2006)
- Plant + ISVE Performance Data + Charts (10 pages)
- Lower Aquifer Investigation Summary Report.

First item on the Agenda was the topic of Health & Safety.

Lee CROSE - No Health & Safety issues to Report. PROVIDED REMINDERS

- Temperature rising causing

Chad Saly

(147)

Chad Saly *collected*

- (Continued) moisture to collect on treatment Plant pipe causing water on floors  
Possible Slip/Trip Hazards
- Use proper Equipment - Right Equipment for Job Ex Fork Truck used to remove the New Compressor for the ISVE System that arrived on 06/01/06.
- Insect are coming out along w/ Cottonwood for all who have Allergies.

### Groundwater Treatment Plant.

- Plant Operated @ 94%
- maintenance of Pumps 104 & 105 were acid washed and placed back into service.
- SAND filter was Down for Repair on May 5<sup>th</sup> 2006 Back up same Day.
- Plant Currently Running.

### ISVE System

- Onsite operated 49% of time w/ Problems w/ Therm Ox 1. Therm Ox 1's burners and thermal Coupler remain a problem. New thermal Coupler is order to match

Chad Saly

(48)

Chad Saly *outside*

- (Continued) The New burner unit, -
- Therm Cx 1 went Down with the burner Problem During the Memorial Day weekend.
- MWH has ordered a new Diaphragm for Therm Cx 1. —

### OFF Site SVE

- Operated 92%
- Therm Cx 2 Packing was Replaced ON 5/11/06
- Switched Pumping Group from 3 to 1. This will happen After each monthly Groundwater monitoring Event, which Took Place ON 5/24/06. —

NOTE: Larry Campbell Request the Switch of SVE Groups be acknowledged in the month operating tables. —  
MWH AGREED.

### Lower Aquifer Investigation

- Refer to the Lower Aquifer Investigation Summary (Draft) Dated June 2, 2006
- MWH Provide the Report as well that I Took w/ me

Chad Saly

(149)

Chad Saly

(Continued) EPR Retrieval 3 Express Well w/ 2 AND MADE ARRANGEMENT for the 3<sup>rd</sup> to be placed in the repository once approved. —

- MWH Proposed A PHASE III to the off site plume to North Northwest area @ MW53 (monitoring well 53).

The PHASE III would install a Pump and treat system to capture the offsite Benzene by Pumping 5 gpm from LA Wells AND MWS5 with the installation of Two Continual wells MW58 & MW57 on the Aeger Properties Past the Canadian National Rail Line. —

NOTE Kevin Adler Questioned the following items

- Institutional Control Agreement
- Wetlands Impact Statement / Inspection
- Access Agreement w/ Aeger.
- Access Agreement w/ CANADIAN NATIONAL Tom Kerbaski

Kevin Request we Provide the Review as soon as possible to him.

Chad Saly

(150)

Paula Self October  
(Continued) plans to start construction  
activities this month.

- Next meeting is tentatively  
scheduled for July 13, 2006  
on site @ 12:00. If this  
slips fall back is likely  
July 14, 2006 @ McEwen's office.

~~Paula Self~~  
~~October 10~~





Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 87 Photo #1

Date: 5-11-06 Time: 0927

Photographer: Chad Gailey

Description: Photo facing west from inside the treatment plant of Lee & Tim removing the old ChemOx packing.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 87 Photo #2

Date: 5-11-06 Time: 0945

Photographer: Chad Gailey

Description: Photo facing south @ 1002 Reder Rd., Justin Finney logging the boring.



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 87 Photo #3  
 Date: 5-11-06 Time: 0946  
 Photographer: Chad Gailey  
 Description: Photo facing south @ 1002 Reder Rd.  
 Tim Carroll scanning the boring for  
 VOCs.

Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 87 Photo #4  
 Date: 5-11-06 Time: 1000  
 Photographer: Chad Gailey  
 Description: Photo facing north @ 1002 Reder Rd @  
 boring D65 of impacted soil depth of  
 19'.





Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 87 Photo #5  
Date: 5-11-06 Time: 1015  
Photographer: Chad Gailey  
Description: Photo facing northwest @ 1002 Reder Rd of PSA Bobby Jones decontaminating the sampling barrel.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 87 Photo #6  
Date: 5-11-06 Time: 1016  
Photographer: Chad Gailey  
Description: Photo facing north @ D6C5 1002 Reder Rd of Tim Carroll pulling a VOC sample @ 19' to 20'.





Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 87 Photo #7  
 Date: 5-11-06 Time: 1058  
 Photographer: Chad Gailey  
 Description: Photo facing southwest @ D605, 1002  
 Reder Rd. Tim Carroll collecting a  
 VOC sample.



Site: American Chemical Service, Inc.  
 Proj. #: 44728 AES [46526 RAC]  
 Roll: 87 Photo #8  
 Date: 5-11-06 Time: 1135  
 Photographer: Chad Gailey  
 Description: Photo facing southeast @ D604, 1002  
 Reder Rd. PSA Advance Push Probe  
 and MWA log the soils.





Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 87 Photo #9  
Date: 5-11-06 Time: 1142  
Photographer: Chad Gailey  
Description: Photo facing southwest. D604 of Justin logging the impacted soil @19.5' below land surface.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]  
Roll: 87 Photo #10  
Date: 5-11-06 Time: 1335  
Photographer: Chad Gailey  
Description: Photo facing south @ D609A of MWH logging the boring. IDEM providing oversight.



Site: American Chemical Service, Inc.  
Proj. #: 44728 AES [46526 RAC]

Roll: 87 Photo #11

Date: 5-11-06 Time: 1530

Photographer: Chad Gailey

Description: Photo facing east @ D604 of Justin  
Finney filling VOA vials.